Plaintiffs' Exhibit 16 (Redacted)

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1	IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF VIRGINIA	1
2	Civil Action No: 1:23-cv-00108-LMB-JFA	
4	UNITED STATES, et al.,	
5	Plaintiffs,	
6	V.	
7	GOOGLE LLC,	
8	Defendant.	
9	CONFIDENTIAL VIDEOTAPED DEPOSITION OF TIM CRAYCROFT	
10	August 15, 2023	
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Page 25 Page 27 1 director of something in ads. Targeting, I think it and they were shifting their headquarters here to 2 was called, just director of targeting. When I left, Denver, so I would be traveling less. I was vice president of multichannel advertising. 3 Q. So at the time you worked at Amazon, Q. Does "director of display advertising 4 were you still living in the Seattle area? Is that platform" sound familiar? 5 where you were living? A. I moved to Boulder, Colorado, in 2017. 6 A. Yes. 6 7 Q. Was that the position that you had 7 So I continued to work for Amazon for two and a half prior to being vice president of multichannel years from Boulder. 9 advertising? 9 Q. After Checkr, then you go to Google? 10 Excuse me. 10 A. Yeah, I joined Checkr in January of 11 A. Yeah. The evolution was targeting, 2020. The pandemic started shortly thereafter. That 12 display, multichannel advertising. Some of these changed the growth prospects of the company and 12 are -- MCA's just the name for a bunch of other changed the requirements of the role I had taken. 13 So I -- Google called me shortly after 14 stuff. 14 15 Q. At the time you left Amazon, how much 15 I joined Checkr, and after a few months, I decided were you making a year? that I was interested in changing. So I joined 16 A. In the \$2 million range, 2 to 3, Google in September of 2020. 17 17 depending on the stock price. 18 Q. Does Checkr still exist, or did it 18 19 Q. Is that broken down by salary and stock 19 fold? 20 options? 20 A. No, it exists. 21 A. That's total. 21 Q. Do you have any stake in Checkr 22 Q. Total compensation? 22 anymore? 23 A. Amazon -- yeah. 23 A. Excuse me? 24 Q. Could you break that down to salary 24 Q. Do you have any stake still in Checkr? 25 versus stock options? 25 A. I do not. I didn't stay long enough to Page 26 Page 28 1 invest any equity. 2 2 Q. When you first came to Google, what was 3 3 your position? 4 4 A. Vice president and general manager of 5 Q. Where'd you go next after Amazon? YouTube ads. A. I went to a company called Checkr, 6 6 Q. Just approximately how long were you in 7 C-h-e-c-k-r. 7 that role? 8 Q. What was your role there at Checkr? A. I still am responsible for YouTube ads. 8 9 A. Chief product officer. My role expanded in April of 2021. 9 Q. What product did you oversee, or 10 Q. And expanded to cover what fields that 10 you weren't previously covering? 11 products, plural? 11 A. Checkr's core business is background 12 A. Google Display ads, Google app ads, 13 checks, using software to automate all the background publisher products, including Google Ad Manager, 14 check process. AdSense, AdMob. 15 Q. If I understand, someone applies for a 15 Q. And you are currently in that role? 16 job, then that company would have Checkr run the A. I am currently in that role. 16 17 Q. What's your salary at Google? 17 18 right? MS. SESSIONS: I am going to object on 18 19 A. That's correct. 19 relevance grounds. 20 Q. What caused you to leave Amazon? 20 You can answer. 21 A. I'd been there a long time and was 21 A. Salary as in cash or total 22 doing a lot of the same things every day. And Checkr 22 compensation? 23 called me, and I thought the opportunity to join a 23 Q. (By Mr. Freeman) Break it down, both, 24 small company where we would move faster, be more 24 for me. 25 entrepreneurial, do something different than ads --25

Page 29 Page 31 And they own all the communication, all 1 the planning, agreement on a technical design across 2 Q. Just at a high level, is that a fair 2 multiple teams. Agreement on a schedule. When the summary of your career and employment? "Yes"? schedule's at risk, figuring out what to do. But 4 it's got a project management component. How are you 5 A. Yes, it is. 6 Q. Did I miss something? 6 going to execute? 7 A. No. 7 But then it still plays a very 8 Q. All right. I want to then go back to significant role. High expectations of TPMs at Amazon to have good technical judgment and technical 9 your time at Amazon and start there. 10 A. Okay. 10 problem-solving skills. Q. Can you give me an idea of what product 11 Q. So when you first got to Amazon, were 11 they were responsible for that they were then 12 you the director of e-commerce platform product 12 13 group? Does that sound right? bringing to you to report to or you were supervising? 14 A. We had a wide portfolio of projects. 14 A. I think that's what we renamed the 15 program office to. When I joined, it was called the 15 Anything that required many teams at Amazon to agree and execute together. 16 program office. 16 17 Q. Who did you report to in that role? 17 Q. I guess what I'm trying to get at is: 18 18 I mean, is this in the ad space? A. Matt Swann to start. A. Ads at Amazon didn't exist at this 19 Q. Did that change at any time while you 19 20 were in that particular role? 20 time. Q. Okay. So that's what I'm trying to --21 A. I had many managers in that role. 21 just, like what general field, were you --22 Would you like me to enumerate them? 22 23 Q. Sure, if you remember them. 23 A. This was the e-commerce platform, so this could be launching Amazon's third-party 24 A. Matt Swann, Charlie Bell, Rick Dalzell, 24 marketplace internationally, where third parties --25 Jason Kilar, Brian Valentine. Page 30 Page 32 1 Q. Sorry. What was that last one? you know, it's commonplace today. 2 A. Brian Valentine. 2 Enabling other retailers -- enabling 3 Q. What would have been their title during Amazon to run other retailers' websites. That was 4 that time frame? Like, you were reporting to what part of Amazon's business at the time. Like Target 5 position? used to run on Amazon's platform. Could be as simple 6 A. Matt was a director over -- all the as enabling, you know, a new payment method on 7 others were vice presidents or senior vice 7 Amazon. 8 presidents. Q. Were you still writing code during 8 9 Q. Did you have a team that reported to 9 this -- this time? 10 you in that role? A. I was not. 10 11 A. Yes. 11 Q. How would you typically communicate 12 Q. Who were your direct reports? with your bosses during that time frame? 12 13 A. In the early days, they were individual Maybe I can break that down if you 13 14 contributor technical program managers, and then over 14 don't -- did you have standing meetings with them? time, managers of technical program managers. A. Certainly had one-on-ones, and then 15 15 16 Q. Can you break that down a little bit business cadence meetings. Business reviews of 16 17 for me? particular projects. 17 18 When you say "technical program 18 Q. And then, of course, email? 19 managers," can you give me an example of what you 19 A. Yeah. Q. During this time, did Amazon have what 20 mean by that or what they were in charge of? 20 21 A. I'll use "TPM" for short. TPMs are I'll call, like, a chat or instant message system 22 cross-functional leaders. So in most large just amongst Amazon employees? 22 23 companies, especially in a technical environment, you 23 A. Not that I remember. 24 need teams to collaborate on what you're going to 24 Q. Did you have standing meetings with the 25 people that directly reported to you? 25 build and how you're going to build it.

Page 33 Page 35 pandemic and financial crisis in my career moves. 1 A. Yeah, the same thing. One-on-ones, 1 2 regular reviews of projects and programs. 2 So, again, the company's funding, Q. And then, of course, email as well? 3 ability to grow, general prospects were very 4 A. Yes, email. different than when I had joined. 5 Q. And your email address at Amazon at 5 Q. Does NING still exist? that time was timcray@amazon.com? 6 A. I'm not sure. I believe it was bought 6 7 A. That's correct. 7 by somebody at some point, but I haven't kept track. 8 Q. So then you got promoted to director of Q. You don't have any stake still in NING? 8 display advertising platform; is that right? 9 A. I do not. 9 10 A. No, that's not right. 10 Q. So you leave NING and then you go back 11 Q. Okay. What was the next job within 11 to Amazon? 12 Amazon after e-commerce platform? A. Yes. 12 Q. Is that when you go back to -- as the 13 A. That was my last job at Amazon before I 13 left in 2007 for -- wait -- 2008, sorry. director of display advertising platform? 14 14 15 I left in March-ish 2008 for -- and 15 A. Yeah. It wasn't called that when I first started. 16 then returned in June 2009. 16 17 Q. What was it called, if you remember? 17 Q. Why did you leave in March of 2008? A. I was recruited to a startup in Silicon A. I think I was director of targeting. 18 18 We didn't have a display platform at that time. 19 Valley. 19 Q. What startup was that? 20 20 Q. So what was your duties and 21 21 responsibilities as director of targeting? A. NING, N-i-n-g. 22 Q. What was the main product or service 22 A. I started out leading product 23 that NING was providing? 23 management for Amazon's display ads business with a particular emphasis on targeting, on what today you 24 A. It was a platform for building 24 would call audiences in advertising. 25 applications in the cloud, and it had one particular Page 34 Page 36 1 application, which was effectively social networks 1 And then I took on responsibility for 2 for small groups, like a college alumni club or 2 engineering. 3 brands. A lot of music, a lot of artists, like -- I 3 Q. When you were in director of targeting, 4 still remember 50 Cent and Linkin Park hosted their 4 were you writing code at that time? fan community websites on that platform. 5 A. No. It was Marc Andreessen's last company 6 Q. Maybe we can short-circuit this. Have 6 7 before he became a venture capital investor. 7 you ever wrote code from this point moving forward? 8 Q. I'm sorry. Could you say that name 8 A. Not professionally. 9 Q. When you were director of targeting, 9 again? 10 who did you report to at Amazon? A. Marc Andreessen. 10 11 11 A. I reported, at first, to Toni Reid, Q. What was your role at NING? A. I think my title was VP of platform T-o-n-i R-e-i-d, who ran the ad business for Amazon 12 12 engineering. I forget, exactly. So I led half to at the time. 13 14 two-thirds of the engineering team. 14 Q. What was Toni Reid's position at 15 Q. Can you ballpark to me? When you say Amazon? 15 "half to two-thirds," how many? Are we talking A. Director of advertising. 16 16 17 about, like, 10 engineers? Are we talking about 50 17 Q. Were there other groups or directors engineers, 100 engineers? that were reporting to Toni at the time that you were 18 reporting to Toni? 19 A. Somewhere between 50 and 100. 19 20 Q. So were you writing code at NING? 20 A. Yes. Q. What I'm trying to get at is: What was 21 21 A. No. 22 Toni Reid's umbrella? What were all the things 22 Q. Why'd you leave after a fairly short underneath? 23 stint at NING? 23 24 A. I spent a year there. I joined just as 24 A. I don't remember exactly, but account

25 management was originally one of the functions --

25 the financial crisis -- I have great timing with

Page 37 Page 39 1 other functions she owned. Q. Is it fair to say this job that we're 2 2 talking about now, at Amazon, was your first job Q. Who reported to you during this time 3 frame? 3 dealing with web advertising? 4 4 A. Yes. At the very end of NING, we were A. I don't remember in detail. I had a bunch of individual product managers to start. And starting to sketch out advertising support for the then a handful of individual engineers and an social network, the group sites that were built on 7 engineering manager. It was a long time ago. I the platform. So I had -- you know, we had hired 8 don't remember much more than that. someone from an ad tech company. I don't remember 9 Q. Even without names, do you remember any who it was or where they came from. 10 particular products or things like that that they 10 So I had started to get familiar with 11 were reporting to you at that time? some very basic concepts. This was the first time I 12 A. The key -- right out of the gate, the 12 had built anything. 13 key thing we were working on was enabling our account 13 Q. Just to make sure I have the timeline right, when you're talking about the end of NING or 14 managers to build audiences, right, for an advertiser 14 15 to express the type of consumer they wanted to reach, being back at Amazon for your second run, this would and then to use -- obviously, Amazon has a tremendous have been in 2009? 17 dataset of what people are shopping for and buying. 17 A. Correct. 18 So that could range from people who are 18 Q. I kind of want to move to the -- kind 19 actively trying to buy a television, as an example, of, like, the status of online advertising when you 20 to people who -- more in terms of long-term behavior. first entered this field in 2009, okay? 21 You know, people who buy a lot of luxury goods, or 21 So, like, how did you get familiar with 22 people who seem to have become new parents based on the products and kind of the landscape of web 23 their purchasing patterns. advertising? 24 24 So we were building tools to construct MS. SESSIONS: Object to the form. 25 25 those audiences. A. How did I get familiar with it? Page 38 Page 40 1 Q. Was this advertising on what I'll call Talking to customers. Using the 2 Amazon owned-and-operated websites? products. Talking to my team. Reading trade press. 3 3 A. At the time it was, yes. Q. (By Mr. Freeman) And what kind of trade 4 Q. Meaning that this did not apply, this 4 press would you read, if you remember? particular time, to third-party websites; is that 5 A. Back then, I don't remember. Adweek. 6 right? I can rattle off a bunch of trade press names, but I 7 That were not owned and operated by don't know if they were the ones that were relevant Amazon? 8 8 at the time. 9 A. Correct. It included Amazon.com, IMDb, 9 Q. So at that time, you thought that they 10 DPReview, which was a camera review site that we were relatively reliable sources in this field? 10 11 owned. 11 MS. SESSIONS: Object to the form. 12 I think that was it. 12 A. They were just sources of information 13 Q. Back to my questions I kind of asked or perspective, not necessarily reliable. 13 14 you before in terms of how did you regularly 14 Q. (By Mr. Freeman) So at the time you 15 communicate with your boss during this time frame? entered web advertising in 2009, did Amazon have a 15 16 Like, standing meetings? publisher ad server product at that time? 16 17 A. Yes, standing meetings. 17 A. No. 18 Q. Email? 18 Q. Do you know who -- what other companies 19 A. Yes, email. 19 had publisher ad servers in 2009? 20 Q. And your email was the same even 20 A. I know at least Google and 20 -- I from -- even though you left for a period of time? 21 think it was called 24/7 at the time, 24/7 Real 22 When you came back --22 Media. 23 23 A. Yes. And there are a couple others whose 24 24 Q. -- it was timcray@amazon? name I can't remember. 25 25 A. timcray@amazon. Q. Who had the largest share of the market

	Dog 41		Dogo 42
	Page 41		Page 43
1	in 2009 for publisher ad servers?	1	Q. And what is AdX, from its inception,
2	MS. SESSIONS: Object to the form.	2	then, an ad exchange?
3	A. I don't know.	3	MS. SESSIONS: Object to the form.
4	Q. (By Mr. Freeman) Are you familiar with	4	A. I wasn't familiar with it at its
5	the Google's product, what we commonly call DFP?	5	inception, so I can't say "yes" or "no."
6	A. Yes, I am.	6	Q. (By Mr. Freeman) Then moving on to your
7	Q. All right. When did you first become	7	other roles at Amazon.
8	familiar with DoubleClick for Publishers, right?	8	You get promoted to vice president of
9	That's what it stands for?	9	multichannel advertising; is that right?
10	A. Yes, that's what it stands for. I	10	,
11	first became familiar with it right as I started with	11	probably of display ads. I don't remember the exact
12	Amazon in the ad business, because Amazon used DFP at	12	
13	that time.	13	Q. What was different about that role from
14	Q. Do you know where the term "DFP" comes	14	•
-	from?	15	A. Nothing.
16	A. (No response.)	16	
17	Q. What I mean	17	e e
18	A. I don't	18	Q. So no duties and responsibilities
19	Q by that, do you know that Google	19	changed?
20	bought DoubleClick?	20	A. Yeah. My mom said, Congrats on your
21	A. Yes, I know Google bought DoubleClick.	21	new responsibilities. I said, Mom, nothing's
22	Q. Were you at Google at the time that	22	changed. This isn't General Electric.
23	they bought DoubleClick?	23	Q. So was this part of, like, a
24	A. No, I was not at Google at that time.	24	reorientation at Amazon?
25	Q. Then how did you did you become	25	A. No. Just a recognition of leadership
	Page 42		Page 44
1	Page 42	1	Page 44
1	familiar with DFP while you were still at Amazon?	1 2	and impact, I guess.
2	familiar with DFP while you were still at Amazon? A. Yes, I did.	2	and impact, I guess. Q. Did it come with increased salary?
2 3	familiar with DFP while you were still at Amazon? A. Yes, I did. Q. How did you become familiar with it	2 3	and impact, I guess. Q. Did it come with increased salary? A. Sure.
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Page 133 Page 135 1 A. Changes over time, so... 1 I haven't seen any data. 2 Q. Was there a particular group that 2 Q. Even without seeing data, has anyone 3 demands more of your time than another? 3 just told you the --4 A. No. It depends on the interesting 4 A. No. 5 subjects of the day. 5 Q. -- market share? 6 In terms of regular business cadence of 6 A. No. 7 staying connected with the team, reviewing the 7 Q. Does Google monitor their market share 8 business, that's pretty equal across everything. 8 in DFP? And then it's more ad hoc based on the 9 9 A. Not that I've seen. Doesn't mean it 10 needs of the teams. 10 doesn't happen. 11 Q. I know we talked about Quarter 2 2021 11 Q. What is -- what are some of the DFP 12 alone. Has Google Display ads continued to grow even 12 competitors for PASs? after Quarter 2 of 2021? A. PAS is what? Clarify the question. 13 14 A. If I recall, yes, through the rest of Q. Which is -- which is Amazon -- I'm 14 15 2021 and some of 2022. 15 sorry -- publisher ad servers. 16 These numbers are much higher than --MS. SESSIONS: I'm sorry. Can you just 16 17 growth now, because this -- remember what was ask that full question again, please? 17 18 happening in -- these are year-over-year numbers, and Q. (By Mr. Freeman) What are some of 18 19 remember what was happening in the world Q2 2020? So the -- what are some of DFP's competitors for 19 20 these are comparing to big drops the prior year. 20 publisher ad servers? 21 So these growth rates are not 21 A. In web, it's still AppNexus. I'd have 22 reflective of what's normal for the Display business. a -- speaking from a North American lens. There are 22 23 The Display business this year is a bunch of other names I don't remember in Europe. declining modestly year over year. And on video, FreeWheel, Magnite. And in mobile, ad 24 25 Q. What do you attribute that to? serving patterns look very different in mobile, and Page 134 Page 136 A. Tough economy. Less growth in it's another set of competitors. 2 2 post-COVID of consumer digital behavior. During AppLovin, ironSource, Unity. (The Stenographer interjected to COVID, everyone went online, spent a lot more time 3 protect the integrity of the record.) online. So the supply side has stopped growing as 4 5 A. AppLovin, A-p-p-L-o-v-i-n, ironSource, well at the rate that it did during COVID. 6 Unity. 6 Q. Has there been a change in consumer 7 Q. (By Mr. Freeman) Since you've been at 7 behavior, meaning transitioning more to phone or Google, to your knowledge, has Amazon developed and video? 8 9 A. Yeah -implemented a AdX competitor? 10 A. AdX, not DFP? 10 MS. SESSIONS: Object to the form. 11 Q. Correct. 11 A. Yeah. We certainly see continued user 12 A. No. 12 attention spent more in apps than on the web. 13 There are -- anyway, there -- there are 13 Q. (By Mr. Freeman) Who is DFP's largest competitor today? many public job listings, even in the press 14 yesterday, for Amazon investing in building some sort 15 A. In what domain? of publisher ad infrastructure. But I don't know Q. In SSPs for web display. 16 17 A. For SSPs, it's the same list that we've 17 exactly what it is. 18 gone over a few times. There's no one that stands 18 Q. Your information now about what Amazon 19 out because, as a web publisher, you can use many 19 is doing is just publicly related information? 20 SSPs together. 20 A. Yep. 21 Q. Do you remember particularly what Most publishers use most, if not all, 21 22 of them. 22 source that was that you read? 23 Q. Now that you're at Google and DFP's 23 A. It was just -- it was in trade press. I don't know which one, but it's all just links to 24 under your scope, do you have an idea of market 24 25 share? 25 the Amazon job site.

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Q. Now that you're at Google, do you know 2 why Google acquired DoubleClick?

3 A. No one's ever told me specifically, but Google wasn't really in the display business back then. So presumably, it was to expand into the 6 display business.

- Q. Do you know how the price that they agreed on was reached?
- A. No idea.

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10 Q. I know we talked about this, I think, 11 in the morning, about -- about last look.

12 Are you aware of whether Google ever 13 implemented last look?

- 14 A. Nope.
- Q. Are you familiar with the term Admeld, 15 16 meaning A-d-m-e-l-d?
- A. It was a company, I believe, that 17 18 Google acquired.
 - Q. Do you know why they acquired them?
- 20 A. I don't remember.
- Q. Did that predate your time there? 21
- 22 A. Yeah.

P-o-i-r-o-t?

- 23 Q. Do you know the term or project,
- Project Bell, B-e-I-I? 24
- 25 A. No, I don't.

1 There's a concept called pacing and

- you -- for those direct sold demands that are
- contractually committed, the ad server -- it says,
- I've got a week to deliver a million impressions.
- The advertiser wants them to deliver smoothly by day.

Page 139

Page 140

- They don't want me to deliver seven days of
- impressions in one day. They want to spread them out
- evenly. So the ad server's keeping track of that.

9 And if something's under-pacing, so 10 we're behind schedule in delivering on that

contractual commitment, that potentially lower price

12 contracted fixed-price ad may serve instead of the

13 higher-priced ad that comes in from the exchange.

14 That's the dynamic allocation, rather 15 than a simple sorting of prices.

- 16 Q. Are you familiar with the term 17 "realtime bidding"?
 - A. Yes.

18

19

4

5

Q. What does that mean?

20 A. Realtime bidding is how ad exchanges 21 offer up the opportunity for many -- multiple buying 22 platforms, tens or hundreds, commonly, on every single potential impression to bid for a potential 23

24 impression on a publisher website or app.

25 Q. And I think you mentioned this in the

Page 138

Q. What about Project Poirot, meaning

3 A. I know I've seen that name. I don't 4 know what it means, though.

- 5 Q. Do you know the phrase "dynamic allocation"? 6
 - A. Yes.
- 8 Q. What's your understanding of dynamic 9 allocation?

10 A. I explained this in our prior session. Large publishers monetize through a mix of direct

12 sold and then indirect demand that comes in through

13 the exchange.

14 The direct sold demand is typically a 15 contract to deliver a certain amount -- number of 16 impressions at a certain price.

17 Quite often, you'll have indirect 18 demand coming in from the exchange that's bidding 19 higher than those contracted fixed prices. And there 20 will be cases where you will choose to serve the

- 21 lower-priced ad that was contractually committed 22 because it's contractually committed to deliver a
- 23 certain amount by a certain date, even though, if you
- 24 were to ignore that, the publisher could make more
- 25 money by letting in an ad from the exchange.

1 morning, but was there a period of time where

- auctions were done by what was commonly referred to
- 3 as "waterfall"?
 - A. Yes.
 - Q. Can you describe to me the difference
- between realtime bidding versus waterfall? 6
- 7 A. Realtime bidding is letting multiple
- demand sources, many DSPs, and then the many, many
- advertisers using those DSPs -- so it's hundreds,
- thousands of advertisers -- to compete in parallel
- 11 for a given impression.

Whereas a waterfall is -- you would

take each demand source -- in the pre-DSP days, it would be an ad network that had aggregated advertiser

demand -- and you would put them in the order you

think would -- who would most often pay the most for

17 ad impressions, and then the next most, the next

18 most.

19 And so if ad network A that you 20 scheduled first in mediation couldn't fill an ad impression, the waterfall goes to the next one and goes to the next one. And the art and science of 23 that is learning what order to put them in.

- Q. Is waterfall still implemented today?
- A. I'm not aware of it in the web.

24 25

	01141		
	Page 169		Page 171
1	And there's still, you know, a chunk of	1	MS. SESSIONS: I have no additional
2	the business which is just people paying for clicks	2	questions.
3	and managing on ROI on their own. But the fastest	3	We would like to mark the transcript as
4	growing and the majority of the spend is constrained	4	highly confidential pursuant to the protective order,
5	by these performance objectives.	5	and we would like to read and sign, please.
6	Q. Who are some of your largest customers	6	MR. FREEMAN: Okay.
7	of Google ads Google Display ads?	7	THE VIDEOGRAPHER: Going off the record
8	A. I don't know the top ten, but go down	8	at 2:47. This marks the end of Media 4 of 4.
9	the list of the largest advertisers in the world or	9	The foregoing deposition was concluded
10	the country and you're just going to see the same.	10	at the hour of 2:47 p.m. Total time on the record
11	It's the big CPG companies. It's the big retailers.	11	was 3 hours and 46 minutes.
12	It's the big telecom, big media and entertainment	12	
13	companies. It's easier to talk about it as verticals	13	
14	rather than specific advertisers.	14	
15	Q. What's the difference between DV360 and	15	
16	Google Display ads?	16	
17	MS. SESSIONS: Object to the form.	17	
18	A. Typically, different advertisers or	18	
19	different budgets within advertisers.	19	
20	As I said, DV 3 is for more	20	
21	sophisticated advertisers where they're delegating to	21	
22	the agency. The agency is there to add their own	22	
23	value in terms of the art and science of optimizing	23	
24	for the advertiser's marketing objectives.	24	
25	With GDA, Google Display ads,	25	
	Page 170		Page 172
١,	•	1	I, Tim Craycroft, the deponent in the
1	increasingly, advertisers give more control to	2	above deposition, do hereby acknowledge that I have
2	Google's systems to through an automated process	3	read the foregoing transcript of my testimony, and
3	to achieve their marketing objectives. So it's	4	state under oath that it, together with any attached
4	machines versus humans. DV 3 is still a product for	5	Amendment to Deposition pages, constitutes my sworn
5	high-end advertisers that have practitioners that are	6	testimony.
7	specialists in programmatic advertising, figuring out	8	I have made changes to my deposition
8	what ads what sites to run on, what to bid, how to measure success.	9	I have NOT made any changes to my deposition
9	GDA is a simpler product that scales to	10	
10		11	
11	where you know, in oversimplified terms, you give	12	Tim Craycroft
12		13	
13		14	
14		15	Subscribed and sworn to before me this
15		13	day of, 20
16		16	· ———
17	,	17	
18	•	18	My Commission expires:
19	·	19	
20			Notary Public
21	EXAMINATION	21	
22	BY MS. SESSIONS:	22	
23	Q. Do large sophisticated advertisers use	23	Address
24		24	
25	A. Yes, they use both.	25	
1		1	

	Page 173
1	REPORTER'S CERTIFICATE
2	
3	I, Matthew R. Moss, a Registered Professional
4	Reporter, Federal Certified Realtime Reporter, and
5	Notary Public within and for the State of Colorado,
6	commissioned to administer oaths, do hereby certify
7	that previous to the commencement of the examination,
8	the witness was duly sworn by me to testify the truth
9	in relation to matters in controversy between the said
10	parties; that the said deposition was taken in
11	stenotype by me at the time and place aforesaid and
12	was thereafter reduced to typewritten form by \ensuremath{me} ; and
13	that the foregoing is a true and correct transcript of
14	my stenotype notes thereof.
15	That I am not an attorney nor counsel nor
16	in any way connected with any attorney or counsel for
17	any of the parties to said action nor otherwise
18	interested in the outcome of this action.
19	My commission expires: April 28, 2025.
20	Matthew Moss
21	mannew moss
22	MATTHEW R. MOSS
	Registered Professional Reporter
23	Federal Certified Realtime Reporter
	and Notary Public
24	
25	

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ERRATA SHEET FOR THE TRANSCRIPT OF TIM CRAYCROFT

Case Name: In Re: Google Antitrust Investigation

Dep. Date: August 15, 2023

Deponent: Tim Craycroft

Page	Line	Correction	Reason for Correction
7	9	Change "Perry" to "Parrott"	Transcription error
7	13	Change "Perry" to "Parrott"	Transcription error
10	2	Change "you know," to "no"	Transcription error
20	10	Change "CFO" to "CEO"	Transcription error
22	10	Change "been working on for three" to "worked on for four"	Transcription error
28	1	Change "invest any equity" to "vest any equity"	Transcription error
35	19	Change "display platform" to "display ad platform"	Transcription error
46	23	Change "enters those ad" to "enters, manages those ad"	Transcription error
47	25	Change "for" to "or"	Transcription error
48	12	Change "Just" to "it was"	Transcription error
50	16	Change "looking for" to "trying to find"	Transcription error
50	17	Change "It's also complex" to "Header Bidding is also very complex"	Transcription error
53	5	Change "one" to "once"	Transcription error
53	6	Change "hands, know" to "hands, to know"	Transcription error
53	11	Change "I remember her role" to "I don't remember her role"	Transcription error
53	12	Change "the business" to "business"	Transcription error
56	4	Change "not of the" to "not the"	Transcription error
56	20	Change "Incident level data" to "That's event level data."	Transcription error

Page	Line	Correction	Reason for Correction
58	2	Change "(Witness nods head.)" to "(Witness nods head no.)"	
61	1	Change "that one, but we" to "that, I remember some of those discussions, but we"	Transcription error
63	2	Change "still separate" to "still ultimately separate"	Transcription error
64	12	Change "Perry" to "Parrott"	Transcription error
71	7	Change "clarification to" to "clarification for"	Transcription error
71	11	Change "Mr. Perry" to "Mr. Parrott"	Transcription error
71	22	Change "The Bates number is" to "I'm sorry, it was the wrong Bates number. The Bates number is"	Transcription error
76	19	Change "discuss" to "discussed"	Transcription error
77	3	Change "internet, fast internet" to "internet, you know, fast internet"	Transcription error
78	25	Change "the deposition" to "this portion of the deposition"	Transcription error
79	7	Change "That's right." to "Yes, that's right."	Transcription error
80	5	Change "making for" to "making to"	Transcription error
91	12	Change "companies" to "companies named,"	Transcription error
91	16	Change "Go one" to "I guess, go one"	Transcription error
92	23	Change "Who are" to "And who is who are"	Transcription error
93	3	Change "sure" to "sure.' Is that right?"	Transcription error
98	23	Change "funnel" to "the funnel"	Transcription error
99	6	Change "product exists" to "product is available exists"	Transcription error
99	7	Change "a cool" to "a new model of a	Transcription error

Page	Line	Correction	Reason for Correction
		cool"	
99	12	Change "showing that you're" to "show that you've got that you're"	Transcription error
101	23	Change "I've" to "We've"	Transcription error
104	16	Change "mechanical" to "mechanically"	Transcription error
104	21	Change "auction" to "auctions"	Transcription error
104	22	Change "RTD" to "RTB"	Transcription error
109	22	Change "that" to "the"	Transcription error
112	2	Change "medium" to "media"	Transcription error
112	24	Change "resum?" to "resume"	Transcription error
112,11 3	25-1	Change "get our hands on" to "hire at Amazon"	Transcription error
114	16	Change "single option" to "single auction"	Transcription error
115	6	Change "direct" to "dynamic"	Transcription error
115	13	Change "most" to "more"	Transcription error
115	15	Change "on" to "for"	Transcription error
120	12	Change "leaving" to "leading"	Transcription error
120	18-19	Change "you two" to "YouTube"	Transcription error
121	13	Change "gmail" to "google"	Transcription error
126	5	Change "of" to "at"	Transcription error
143	1	Change "know" to "lead"	Transcription error
143	20	Change "I" to "I don't"	Transcription error
160	6	Change "define" to "explain"	Transcription error
160	20	Change "as well as" to "as well as things like"	Transcription error
168	24	Change "T-row" to "tROAS"	Transcription error
169	3	Change "on" to "to"	Transcription error

Case 1:23-cv-00108-LMB-JFA Document 1192-15 Filed 08/22/24 Page 17 of 17 PageID# 87746 HIGHLY CONFIDENTIAL

I have inspected and read my deposition and have listed all changes and corrections above, along with my reasons therefore.

Date: 9823 Signature: